

Form PTO 1449
Rev. 7-80U.S. Department of Commerce
Patent and Trademark Office
LIST OF PRIOR ART CITED BY APPLICANT
(Use Several Sheets If Necessary)Atty. Docket No.
Mo6580/LeA 34.821Serial No
09/941,179Applicant
Martin Adamczewski et alFiling Date
August 27, 2001Group
1636**RECEIVED**

SEP 18 2002

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT & TRADEMARK OFFICE	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
MDP	AA	5.591.590	01/07/97	Heinemann et al	435	7.1	
MDP	AB	5.599.709	02/04/97	Lindstrom et al	435	252.3	
MDP	AC	5.683.912	11/04/97	Elgoyhen et al	435	252.3	
MDP	AD	2002/0006657 A1	01/17/02	(Bel. to corresp. to EP Adamczewski et al	962.528) 435	252.3	
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FOREIGN PATENT DOCUMENTS

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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

MDP	AR	Neuroscience Letters, 199, (month unavailable) 1995) pages 107-110, M. Amar, P. Thomas S. Wonnacott, G.G. Lunt, A nicotinic acetylcholine receptor subunit from insect brain forms a non-desensitising home-oligomeric nicotinic acetylcholine receptor when expressed in <i>Xenopus</i> oocytes"
MDP	AS	FEBS, Vol. 327, No. 3, August 1993, pages 284-288, M. Amar, P. Thomas C. Johnson, G.G. Lunt and S. Wonnacott, "Agonist pharmacology of the neuronal $\alpha 7$ nicotinic receptor expressed in <i>Xenopus</i> oocytes"
MDP	AT	Eur. J. Neurosci., Vol. 6, (month unavailable) 1994, pages 869-875, D. Bertrand, M. Ballivet, M. Gomez, S. Bertrand, B. Phannavong and E.D. Gundelfinger, "Physiological Properties of Neuronal Nicotinic Receptors Reconstituted from the Vertebrate $\beta 2$ Subunit and <i>Drosophila</i> α Subunits

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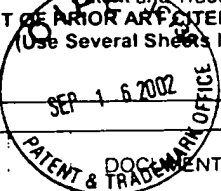
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		Applicant Martin Adamczewski et al	RECEIVED SEP 18 2001 TECH CENTER 600-2900
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MDP	AR	Neurosci. Lett., 146, (month unavailable) 1992, pages 87-90, Daniel Bertrand, Sonia Bertrand and Marc Ballivet, "Pharmacological properties of the homomeric $\alpha 7$ receptor"
	AS	Methods in Neuroscience, Vol. 4, (month unavailable) 1991, pages 174-193, D. Bertrand, E. Cooper, S. Valera, D. Rungger, and M. Ballivet, "Electrophysiology of Neuronal Nicotinic Acetylcholine Receptors Expressed in <i>Xenopus</i> Oocytes following Nuclear Injection of Genes or cDNAs"
MDP	AT	J. Insect Physiol., Vol. 33, (month unavailable) 1987, pages 771-790, "Molecular Properties and Functions of Insect Acetylcholine Receptors"
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	AP						

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

MDP	AR	J. Exp. Biol 200, (month unavailable) 1997, pages 2685-2692, S.D. Buckingham, B. Lapied, H. Le Corronc, F. Grolleau and D.B. Sattelle, "Imidacloprid Actions on Insect Neuronal Acetylcholine Receptors"
MDP	AS	J. Neuroscience 16, December 15, 1996, pages 7880-7891, Bruno Buisson, Murali Gopalakrishnan, Stephen P. Arneric, James P. Sullivan and Daniel Bertrand, "Human $\alpha 4 \beta 2$ Neuronal Nicotinic Acetylcholine Receptor in HEK 293 Cells: A Patch-Clamp Study"
MDP	AT	Quarterly Reviews of Biophysic 25, (month unavailable) 1992, pages 395-432, Jean-Pierre Changeux, Jean-Luc Galzi, Anne Devillers-Thiery and Daniel Bertrand, "The functional architecture of the acetylcholine nicotinic receptor explored by affinity labelling and site-directed mutagenesis"

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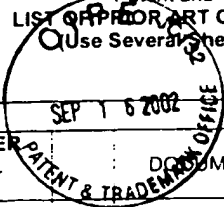
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

MOP	AR	Proc. Nat. Acad. Sci. USA 80, (month unavailable) 1983, pages 1111-1115, Toni Claudio, Marc Ballivet, Jim Patrick and Stephen Heinemann, "Nucleotid and deduced amino acid sequences of <i>Torpedo californica</i> acetylcholine receptor γ subunit"
		Eur. J. Pharmacol., 309, (month unavailable) 1996, pages 287-298, Julia C. Cooper, Oliver Gutbrod, Viet Witzemann, Christoph Methfessel, "Pharmacology of the nicotinic acetylcholine receptor from fetal rat muscle expressed in <i>Xenopus</i> oocytes"
MOP	AS	J. Pharmacol Exp. Therapeut, 280, (month unavailable) 1997, pages 428-438, O. Delbono, M. Gopalakrishnan, M. Renganathan, L.M. Monteggia, M.L. Messi and J.P. Sullivan, "Activation of the Recombinant Human α_7 Nicotinic Acetylcholine Receptor Significantly Raises Intracellular Free Calcium"

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09:941.779**RECEIVED**Applicant
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	Proc. Natl. Acad. Sci. USA 80, (month unavailable) April 1983, pages 2067-2071, Anne Devillers-Thiery, Jerome Giraudat, Martine Bentaboulet and Jean-Pierre Changeux. "Complete mRNA coding sequence of the acetylcholine binding α -subunit of <i>Torpedo marmorata</i> acetylcholine receptor: A model for the transmembrane organization of the polypeptide chain"
NDP	AS	Eur. of Neurosci., Vol. 10, (month unavailable) 1998, pages 879-889, Helen M. Eastham, Robert J. Lind, Jane L. Eastlake, Barry S. Clarke, Paul Towner, Stuart E. Reynolds, Adrian J. Wolstenholme and Susan Wonnacott, "Characterization of a nicotinic acetylcholine receptor from the insect <i>Manduca sexta</i> "
NDP	AT	Eur. J. Pharmacol., 290 (month unavailable) 1995, pages 237-246, Murali Gopalakrishnan, Bruno Buisson, Edward Touma, Tony Giordano, Jeff E. Campbell, Iris C. Hu, Diana Donnelly- Roberts, Stephen P. Arneric, Daniel Bertrand and James P. Sullivan. "Stable expression and pharmacological properties of the human α_7 nicotinic acetylcholine receptor"

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SEP 1 6 2002		Applicant Martin Adamczewski et al	SEP 1 8 2001
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U.S. PATENT DOCUMENTS

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	AP							

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	J. Pharmacol. Exp. Therapeut. 276, (month unavailable) 1996, pages 280-297, Murali Gopalakrishnan, Lisa M. Monteggia, David J. Anderson, Eduardo J. Molinari, Marietta Piattoni-Kaplan, Diana Donnelly-Roberts, Stephen P. Arneric and James P. Sullivan, "Stable Expression, Pharmacologic Properties and Regulation of the Human Neuronal Nicotinic Acetylcholine $\alpha_4\beta_2$ Receptor"
MDP	AS	J. Biol. Chem., 260, March 1985, pages 3440-3450, Grzegorz Gryniewicz, Martin Poenie, and Roger Y. Tsien, "A New Generation of Ca^{2+} Indicators with Greatly Improved Fluorescence Properties"
MDP	AT	EMBO Journal, 5, (month unavailable) 1986, pgs 1503-1508, Irmgard Hermans-Borgmeyer, Dieter Zopf, Rolf-Peter Ryseck, Bernd Hovemann, Heinrich Betz and Eckart D. Gundelfinger, "Primary structure of a developmentally regulated nicotinic acetylcholine receptor protein from <i>Drosophila</i> "

EXAMINER MLC/BJC DWL	DATE CONSIDERED 3-15-05
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

OTHER PRIOR ART (including Author, Title, Date, Filing No., Pages, Etc.)		
WDP	AR	J. Biol. Chem. Vol. 273, No. 29, July 17, 1998, pages 18394-18404, Bernhard Hermesen, Eva Stetzer, Rüdiger Thees, Reinhard Heiermann, Andre Schrattenholz, Ulrich Ebbinghaus, Axel Kretschmer, Christoph Methfessel, Sigrid Reinhard and Alfred Maelicke, "Neuronal Nicotinic Receptors in the Locust <i>Locusta migratoria</i> "
WDP	AS	J. Neurochem. 73, (month unavailable) 1999, pages 380-389, Yao Huang, Martin S. Williamson, Alan L. Devonshire, John D. Windass, Stuart J. Lansdell and Neil S. Millar, "Molecular Characterization and Imidacloprid Selectivity of Nicotinic Acetylcholine Receptor Subunits from the Peach-Potato Aphid <i>Myzus persicae</i> "
WDP	AT	Biotechniques 23, July 1997, Jespersen et al, pages 48, 50 and 52, "Efficient Non-PCR-Mediated Overlap Extension of PCR Fragments by Exonuclease "End Polishing"
EXAMINER		DATE CONSIDERED
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	AL						
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	J. Neurochem., 68, (month unavailable) 1997, pages 1812-1819, Stuart J. Landsell, Bertram Schmitt, Heinrich Betz, David B. Sattelle, and Neil S. Millar, "Temperature-Sensitive Expression of <i>Drosophila</i> Neuronal Nicotinic Acetylcholine Receptors"
	AS	Neuropharmacology, 39, (month unavailable) 2000, pages 671-679, Stuart J. Landsell and Neil S. Millar, "The influence of nicotinic receptor subunit composition upon against, α -bungarotoxin and insecticide (Imidacloprid) binding affinity"
	AT	EMBO J., vol. 9, 13, (month unavailable) 1990, pages 4391-4398, John Marshall, Steven D. Buckingham, Ryuzo Shingai, George G. Lung, Michael W. Goosey, Mark G. Darlison, David B. Sattelle and Eric A. Barnard, "Sequence and functional expression of a single α subunit of an insect nicotinic acetylcholine receptor"

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MOP	AR	Br. J. Pharmacol., 123, (month unavailable) 1998, pages 518-524, K. Matsuda, S.D. Buckingham, J.C. Freeman, M.D. Squire, H.A. Baylis and D.B. Sattelle, "Effects of the α subunit on imidacloprid sensitivity of recombinant nicotinic acetylcholine receptors"
MOP	AS	Nature, Vol. 299, October 1982, pages 793-797, Masaharu Noda, Hideo Takahashi, Tsutomu Tanabe, Mitsuyoshi Toyosato, Yasuji Furutani, Tadaaki Hirose, Michiko Asai, Seiichi Inayama, Takashi Miyata & Shosaku Numa, "Primary structure of α -subunit precursor of <i>Torpedo californica</i> acetylcholine receptor deduced from cDNA sequence"
MOP	AT	Nature, Vol. 301, January 20, 1983, pages 251-255, Masaharu Noda, Hideo Takahashi, Tsutomu Tanabe, Mitsuyoshi Toyosato, Sho Kikuyotani, Tadaaki Hirose, Michiko Asai, Hideaki Takashima, Seiichi Inayama, Takashi Miyata & Shosaku Numa, "Primary structures of β - and δ -subunit precursors of <i>Torpedo californica</i> acetylcholine receptor deduced from cDNA sequences"

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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	Nature, Vol. 302, April 7, 1983, pages 528-532, Masaharu Noda, Hideo Takahashi, Tsutomu Tanabe, Mitsuyoshi Toyosato, Sho Kikuyotani, Yasuji Furutani, Tadaaki Hirose, Hideaki Takashima, Selichi Inayama, Takashi Miyata & Shosaku Numa, "Structural homology of <i>Torpedo californica</i> acetylcholine receptor subunits"
WOP	AS	Trends in Neuroscience 18, No. 3, (month unavailable) 1995, pages 121-127, Marcelo O. Ortells and George G. Lunt, "Evolutionary history of the ligand-gated ion-channel superfamily or receptors"
WOP	AT	Biochimie, 78, (month unavailable) 1996, pages 364-369, G Perrière, M. Gouy, "WWW-Query: An on-line retrieval system for biological sequence banks"

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	AR	Eur. J. Neurosci. 9, (month unavailable) 1997, pages 480-488, D. Ragozzino, S. Fucile, A. Giovannelli, F. Grassi, A.M. Mileo, M. Ballivet, S. Alema and F. Eusebi, "Functional Properties of Neuronal Nicotinic Acetylcholine Receptor Channels Expressed in Transfected Human Cells"
WDP	AS	EMBO J., Vol. 9, No. 9, (month unavailable) 1990, pages 2671-2677, Erich Sawruk, Patrick Schloss, Heinrich Betz and Bertram Schmitt, "Heterogeneity of <i>Drosophila</i> nicotinic acetylcholine receptors: SAD, a novel developmentally regulated α -subunit"
WDP	AT	FEBS, Vol. 273, No. 1,2, October 1990, Erich Sawruk, Conny Udri, Heinrich Betz and Bertam Schmitt, "SBD, a novel structural subunit of the <i>Drosophila</i> nicotinic acetylcholine receptor, shares its genomic localization with two α -subunits"

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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

WDP	AR	EMBO J. Vol. 7, No. 9, (month unavailable) 1988, pages 2889-2894, Patrick Schloß, Irm Hermans-Borgmeyer, Heinrich Betz and Eckart D. Gundelfinger, " Neuronal acetylcholine receptors in <i>Drosophila</i> : the ARD protein is a component of a high-affinity α -bungarotoxin binding complex"
WDP	AS	Neuron, Vol. 5, July 1990, pages 35-48, Ralf Schoepfer, William G. Conroy, Paul Whiting, Martin Core and Jon Lindstrom. "Brain α -Bungarotoxin Binding Protein cDNAs and MAbs Reveal Subtypes of This Branch of the Ligand-Gated Ion Channel Gene Superfamily"
WDP	AT	J Neurochem. 71, (month unavailable) 1998, pages 853-862 R. Schulz, E. Sawruk, C. Mülhardt, S. Bertrand, A. Baumann, B. Phannavong, H. Betz, D. Bertrand, E.D. Gundelfinger and B. Schmitt. "D α 3, a New Functional α Subunit of Nicotinic Acetylcholine Receptors from <i>Drosophila</i> "

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	AL					
	AM					
	AN					
	AO					
	AP					

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	J. Neurochem. 74, (month unavailable) 2000, pages 2537-46, Regine Schulz, Sonia Bertrand, Kathrin Chamaon, Karl-Heinz Smalla, Eckart D. Gundelfinger, and Daniel Bertrand, "Neuronal Nicotinic Acetylcholine Receptors from <i>Drosophila</i> : Two Different Types of α Subunits Coassemble Within the Same Receptor Complex"
AS	J. Neurochem. 71, (month unavailable) 1998, pages 903-912, F. Sgard, S.P. Fraser, M.J. Katkowska, M.B.A. Djamgoz, S.J. Dunbar, and J.D. Windass, "Cloning and Functional Characterisation of Two Novel Nicotinic Acetylcholine Receptor α Subunits from the Insect Pest <i>Myus persicae</i> "
AT	J. Pharmacol. Exp. Therapeut. 284, (month unavailable) 1998, pgs. 777-789, Kenneth A. Stauderman, L. Scott Mahaffy, Michael Akong, Gönül Velicelebi, Laura E. Chavez-Noriega, James H. Orna, Edwin C. Johnson, Kathryn J. Elliott, Alison Gillespie, Richard T. Reid, Pamala Adams, Michael M. Harpold and Janis Corney-Naeve, "Characterization of Human Recombinant Neuronal Nicotinic Acetylcholine Receptor Subunit Combinations $\alpha 2\beta 4$, $\alpha 3\beta 4$ and $\alpha 4\beta 4$ Stably Expressed in HEK293 Cells"

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	AM						
	AN						
	AO						
	AP						

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

WDP	AR	FEBS Lett., 397 (month unavailable) 1996, pages 39-44, Eva Stetzer, Ullrich Ebbinghaus, Alexander Storch, Livia Poteur, Andre Schratzenholz, Gert Kramer, Christoph Methfessel, Alfred Maelicke. "Stable expression in HEK-293 cells of the rat $\alpha 3/\beta 4$ subtype of neuronal nicotinic acetylcholine receptor"
WDP	AS	Nucleic Acids Research, vol. 25, no. 24, (month unavailable) 1997, pages 4876-4882, Julie D. Thompson, Toby J. Gibson, Frédéric Plewniak, Francois Jeanmougin and Desmond G. Higgins. "The CLUSTAL_X windows interface: flexible strategies for multiple sequence alignment aided by quality analysis tools"
WDP	AT	Mol. Pharmacol. 55, (month unavailable) 1999, pages 970-981, J. Zhang, Y. Xiao G. Abdrakhmanova, W. Wang, L. Cleemann, K.J. Kellar, and M. Morad. "Activation and Ca^{2+} Permeation of Stably Transfected $\alpha 3/\beta 4$ Neuronal Nicotinic Acetylcholine Receptor"

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	AL							
	AM							
	AN							
	AO							
	AP							

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

NDP	AR	Van De Beukel I. Et Al.: "Nicotinic acetylcholine receptor chimeras of rat alpha7 and Drosophila"
		Pesticide Science, Bd. 55, Nr. 10, Oktober 1999 (1999-10), Seiten 1031-1033, XP002198050
		Seite 1032, Spalte 1, Absatz 2 - Spalte 2, Absatz 2
NDP	AS	Database Trembl "Online! Accession no. 046134, 1, Juni 1998 (1998-06-01) Hermesen B. et al.:
		"Nicotinic Acetylcholine Receptor, Alpha3 Subunit (Fragment)" XP002198052 Zusammenfassung
NDP	AT	Database Trembl "Online! Accession no. 046128, 1, Juni 1998 (1998-06-01) Jafarigorzini S. et al.:
		"Nicotinic Acetylcholine Receptor Alpha 1 Subunit Precursor" XP002198053
EXAMINER		DATE CONSIDERED
MICHAEL PAK		3-5-05
EXAMINER Initial if referenced considered, whether or not citation is in conformance with MPEP 609: Draw line through if not in conformance and not considered. Include copy of this form with next communication to applicant.		

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	AL					
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	AO					
	AP					

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

MDP	AR	Butler D.H. Et AL: "Mouse-Torpedo chimeric alpha-subunit used to probe channel-gating determinants on the nicotinic acetylcholine receptor primary sequence" Cellular and Molecular Neurobiology. Bd. 17, Nr. 1, Februar 1997 (1997-02). Seiten 13-33, XP001040498 Abbildung 2; Tabelle 1
MDP	AS	Itier V Et Al: "Neuronal nicotinic receptors: from protein structure to function" FEB LETTERS, Elsevier Science Publishers, Amsterdam, NL, Bd. 504 Nr. 3, 31. August 2001 (2001-08-31), Seiten 118-125, XP004304265 ISSN: 0014-5793 das ganze Dokument
	AT	

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